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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/217,740	12/21/1998	MIN CAO	10961260-1	4031	
22878	7590 10/22/2003	•	EXAMINER		
AGILENT TECHNOLOGIES, INC.			OWENS, DOUGLAS W		
INTELLECTUAL PROPERTY ADMINISTRATION, LEGAL DEPT. P.O. BOX 7599			ART UNIT	PAPER NUMBER	٦
M/S DL429			2811		_
LOVELAND	, CO 80537-0599		DATEMAN ED 10/22/200	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.	<u></u>		(A ^N			
Examiner Douglas W Owens 2811	٠,	Application No.	Applicant(s)			
Douglas W Owens 2811		09/217,740	CAO ET AL.			
The MALLING DATE of this communication appears on the cov_r sheet with th_correspondence address — Period for Repty A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherizon of time may be available used the provisions of 3 CRF 1.136(o). In no event, however, may a repty be limely filed If the period for repty specified size to state than thirty (30) stays, a repty within the adulutory minimum of thirty (30) stays will be considered timely. If the period for repty specified size to state than thirty (30) stays, a repty within the adulutory minimum of thirty (30) stays will be considered timely. If the period for repty specified size to state than thirty (30) stays, a repty within the adulutory minimum of thirty (30) stays will be considered timely. If the period for repty is specified size, the manifer gate and this communication. Failure to repty within the set or extended period for repty with, by adulation, part and the application to become ADA/ONED (35 U.S.C. § 135). Responsive to communication (s) filed on 23 July 2003. 2a) This action is FinAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parts Queryle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4-6 is/are perioded under Ex parts Queryle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are as objected to by the Examiner. 7) Claim(s) is/are as objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) disapproved by the Examiner. 11) The proposed drawing correction filed on is/are allowed. 12) The proposed drawing correction filed on is/are allowed. 13) Acknowledgment is made of a claim for foreign priority under 35 U.S	Office Action Summary	Examiner	Art Unit			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edurations of time may be available under the provisions of 37 CFR 1.33(a). In no event, however, may a reply be timely filed Eduration of fine may be available under the provisions of 37 CFR 1.33(a). In no event, however, may a reply be timely filed Eduration of fine may be available under the provisions of 37 CFR 1.33(a). In no event, however, may a reply be timely filed If the period for reply is specified above, the maximum distultory period will apply and will expire SIX (b) MONTHS from the maining date of this communication of the period of the communication, even if timely filed, may reduce it may contain the maining date of this communication, even if timely filed, may reduce it may contain the maining date of this communication, even if timely filed, may reduce it may contain the period term adjustment. See 37 CFR 1.704(a). Status 1)						
THE MAILING DATE OF THIS COMMUNICATION. Edenions of time may be available under the provides of 3D CFR 1.136(a). In no event, however, may a raply be timely filed after SIX (6) MCNTRS from the mailing date of this communication. **Provided of the Communication of the communicatio		ears on the cov r sheet with	th correspondence address			
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2 and 4.6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawings correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. Attachment(s)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).			
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DETAILED ACTION

Claim Objections

1. Claims 1, 2 and 4 – 6 are objected to because of the following informalities: in line 7 of claim 1, the word --the-- or --said-- should be inserted after "only"; in line 9 of claim 1, "a" should be deleted, and --said-- should be inserted; in line 9 of claim 1, "which extends" should be deleted, and --extending-- should be inserted;

in line 13 of claim 1, the colon should be replaced with a semi-colon;

in line 7 of claim 5, the word --the-- or --said-- should be inserted between "only" and "substrate":

in line 9 of claim 5, "a" should be deleted, and --said-- should be inserted;

in line 9 of claim 5, "which extends" should be deleted, and --extending-- should be inserted. Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2 and 4 6 are rejected under 35 U.S.C. 102(b) as being anticipated by US patent No. 5,686,344 to Lee.

Regarding claims 1 and 5, Lee teaches a semiconductor isolation structure (Fig. 4J) comprising:

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a substrate (10) comprising a surface;

a first device and second device formed with the substrate (Col. 3, lines 22 - 27); and

an isolation region (20, 22, 24, 26) between the first and second device, the isolation region comprising:

a single deep region extending into the substrate, the deep region comprising a deep cross-sectional area, the deep region abutting only the substrate and a single shallow region; and

said single shallow region extending to the surface of the substrate, the shallow region comprising:

a protective outer wall (20) adjacent the substrate;

an inner sealing wall (24) located exclusively in the shallow region and adjacent the protective outer wall; and

the shallow region having a shallow region cross-sectional area, wherein the deep region cross-sectional area is greater than the shallow region cross-sectional area.

Regarding claim 2, Lee teaches a semiconductor isolation structure, wherein the isolation region (26) comprises an oxide.

Regarding claims 4 and 6, Lee teaches a semiconductor isolation structure, wherein the protective outer wall (20) comprises a layer of oxide (Col. 3, lines 53 - 55) and the inner sealing wall (24) comprises a nitride (Col. 3, lines 60 - 62).

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Response to Arguments

4. Applicant's arguments with respect to claims 1, 2 and 4 – 6 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 703-308-1690. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

DWO

EDDIE LEE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800